

Absolute-Encoder CMS58:2 - EPN



Ref.: K-CMS58_2-PN-1

19.12.2016

0101020058010302

Advantages

- Economical alternative
- Further interfaces available
- Rugged standard solution
- Short lead times
- Small construction

General Data

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	10/30 VDC
Nominal current, typically	
- Specific value	95 mA
- Condition	unloaded
Device design	
- Type	Single-/Multi-Turn
Total resolution	≤ 25 Bit
Number of steps per revolution	≤ 8192
Number of revolutions	≤ 4096
Accuracy	$\pm 1.0^\circ$
PROFINET IO - Interface	
- PROFINET IO – Device	IEC 61158, IEC 61784-1
- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- PROFINET-Specification	V2.2
- Conformance Class	B, C
- Real-Time-Classes	Class 1, 2 (RT), Class 3 (IRT)
- Media Redundancy Protocol, MRP	yes, is supported
Transmission rate	
- Specific value	100 MBit/s
Parameter/Function, changeable	Addressing

Subject to change.

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General Data continuation

	Adjustment - Parameter
	Scaling parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device
Maximum Speed, mechanically	≤ 12000 1/min
Shaft load, axial/radial	Own mass
Bearing life time	$\geq 3.9E+10$ revolutions
Bearing life time - Parameter - Speed	6000 1/min
- Operating temperature	60 °C
Shaft type	
- Shaft diameter [mm]	8
- Shaft diameter [mm]	10
- Shaft diameter [mm]	11
- Shaft diameter [mm]	12
Angular acceleration	$\leq 10E+4$ rad/s ²
Moment of inertia, typically	1.3E-6 kg m ²
Start-up torque, 20 °C	2 Ncm
Concentricity tolerance	± 0.03 mm
Mass, typically	0.3 kg

Environmental conditions

Vibration	
- Specific value	≤ 100 m/s ²
- Sine	50...2000 Hz
Shock	
- Specific value	≤ 1000 m/s ²
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	-20...+75 °C
Storage temperature, dry	-30...+85 °C
Relative humidity	98 %, non condensing

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Environmental conditions continuation

Protection class
- Standard

IP65

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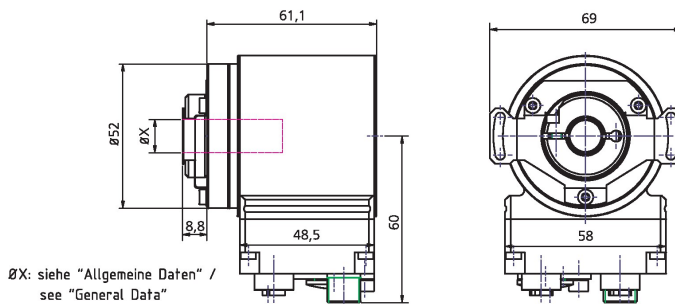
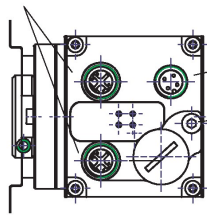
Dimensional drawing

Radial

2x4pol. M12-Stecker, d-codiert (Buchse)
2x4pin. M12-connector, d-coded (female)

4pol. M12-Stecker (Spannungsversorgung)
4pin. M12-male-connector (Supply voltage)

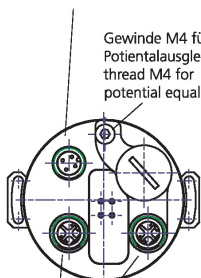
Gewinde M4 für
Potentialausgleich
thread M4 for
potential equalisation



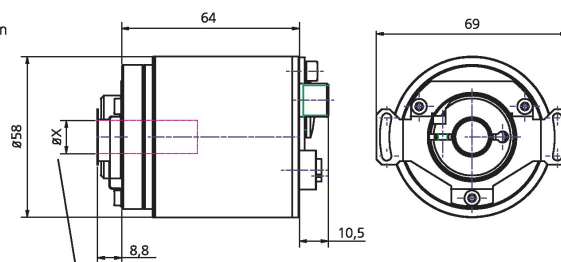
Axial

4pol. M12-Stecker (Spannungsversorgung)
4pin. M12-male-connector (Supply voltage)

Gewinde M4 für
Potentialausgleich
thread M4 for
potential equalisation



2x4pol. M12-Stecker, d-codiert (Buchse)
2x4pin. M12-connector, d-coded (female)



Fehlende Abmaße, siehe Art.-Nr. bezogene Zeichnung /
Missing dimensions, see drawing related to the order number

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Suggested products

CMS582M*8192/4096 EPN DMS 10H7 KRF Connectors axial	CMS582M-00001
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CMS582M*8192/4096 EPN DMS 10H7 KRF Connectors radial	CMS582M-00002
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Subject to change.